

ABSTRACT

A honeycomb structure comprising porous partition walls disposed so as to form a plurality of cells extending in an axial direction. In the honeycomb structure, defining
5 that a porosity and pore diameter of the partition walls in a central portion is (P_i) and (D_i) , a porosity and pore diameter of the partition walls in an outer peripheral portion is (P_o) and (D_o) , (P_i) and (P_o) have a relation of $(P_i < P_o)$; or (P_i) and (P_o) have a relation of $(P_i > P_o)$ and
10 (D_i) and (D_o) have a relation of $(D_i < D_o)$.